Sanitized Copy Approved for Release 2009/12/23 : CIA-RDP81T00618R000100390001-6

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

Secret

et (Z 25X1

imagory analysis roport

Antiradiation Missile Test Activity at Makat and Terekty ASM Impact Areas, USSR, During 1980 (S)

Secret

WNINTEL

25X1

JUNE 1981 Copy 173



25X1

25X1

25X1

## ANTIRADIATION MISSILE TEST ACTIVITY AT MAKAT AND TEREKTY ASM IMPACT AREAS, USSR, DURING 1980 (S)

#### INTRODUCTION

1. (S/D) This report provides a summary of antiradiation missile (ARM) test activities observed at radiation-emitting (radar) targets in the Makat Air-to-Surface Missile (ASM) Impact Area (BE	
and Terekty ASM Impact Area USSR, during 1980. Each impact area	25X
contains one primary ARM target—Makat Target Area B and Terekty ASM Radar	25X
Area A Both impact areas are in the southwestern European USSR. Makat is approxi-	25X
mately 85 nautical miles/155 kilometers (nm; km) northeast of the Caspian Sea. Terekty is approximately	
100 nm/185 km to the east and downrange of the Vladimirovka Advanced Weapons and Research Com-	
plex (VAWARC) Rangehead. Both are associated with the ARM and ASM testing programs of the	
VAWARC (Figure 1).	
2. (S/D) Evidence of probable ARM test activity was observed in both target areas during the	
reporting period. At least six new impact craters were confirmed at Makat Target Area B. Two of these	
impacts were apparently direct hits on BAR LOCK/BIG BAR radars at two of the target radar sites.	
Limited photographic coverage of Terekty ASM Radar Area A precluded a complete assessment of test	

activities during this reporting period. A comparison of revealed the presence of at least four new impact craters at four of the five radar sites in the target area. Two of the craters probably resulted from direct hits on BAR LOCK/BIG BAR radars.

#### DESCRIPTION

#### Makat Target Area B

3. (S/D) Makat Target Area B contains three target radar sites (north, northeast, and northwest), a support area, and a salvage yard. Each radar site when operational contains one BAR LOCK/BIG BAR set consisting of the rotatable antenna transmitter-receiver van (radar van) with its antenna sail assemblies, an operators van, at least two generator vans, trailers, and a prime mover or truck for towing the vehicles. Radar van orientation at each of the target radar sites varied throughout the reporting period. Also, no electronic countermeasures (ECM) equipment was observed in the target area during this reporting period. On the target area was snow covered. The three target radar sites appeared to be operational; however, no new impact craters were present. Figure 2 provides an overall view of Makat Target Area B with new impact craters.

4. (S/D) The first new impact crater observed during the reporting period was seen at the north radar site on impact crater at 48-03-06N 053-43-07E was approximately northeast of the radar van.

25X1 25X1

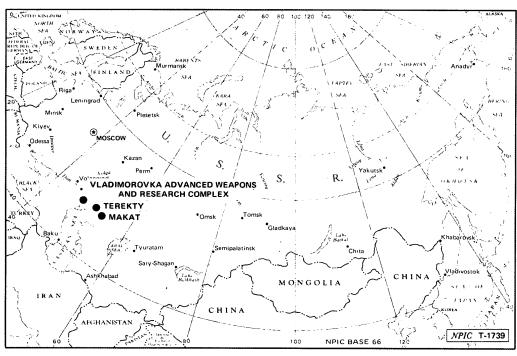
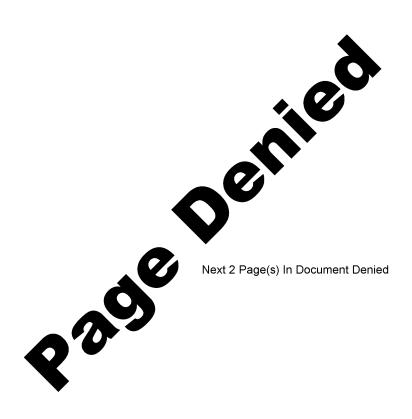


FIGURE 1. LOCATION OF MAKAT AND TEREKTY ASM IMPACT AREAS AND VLADIMIROVKA ADVANCED WEAPONS AND RESEARCH COMPLEX, USSR

WNINTEL Z-20088/81

**SECRET** 

IAR-0119/81



### SECRET

5. (S/D) The results of a direct hit on a radar van were seen at the northeast radar site on  The diameter by deep impact crater was at 48-03-09N 053-43-31E, where a radar van had been positioned on The associated radar support vehicles were present on both days (Figures 3A and B). On a new radar van was next to the crater and a new diameter by deep impact crater was at 48-03-09N 053-43-25E, approximately northwest of the radar van. The radar van at the northwest radar site was not present on but no new impact crater was seen.  6. (S/D) Two additional impact craters were seen on One impact crater, meters in diameter by deep, was at 48-02-42N 053-43-13E, approximately west of the radar van at the northwest radar site. The other impact crater, in diameter by	25X1 25X1 25X1 25X1 25X1 25X1 25X1 25X1
deep, was at 48-03-05N 053-43-05E, approximately northwest of the radar van at the north radar site.  7. (S/D) Evidence of a second direct hit was seen in November. Only the northwest radar site was occupied by a radar van on On	25X1 25X1
deep impact crater was at 48-02-42N 053-43-13E, where the radar van had been positioned on  8. (S/D) When last observed on the three target radar sites were occupied by support vehicles only. No radar vans or new impact craters were observed.	25X1 25X1
9. (S/D) Additional radar vans were observed in the support area and salvage yard. One to three complete radar vans were in the support area near 48-02-28N 053-43-30E during the reporting period. On one complete radar van was seen, and another radar van had its antenna sail lying on the ground nearby. A third radar van had a partially assembled antenna sail, and additional antenna sail sections were nearby. At least ten damaged radar vans, most without antenna sails, were in the salvage yard near 48-02-11N 053-43-16E during the reporting period.	25 <b>X</b> 1
Terekty ASM Radar Area A	
10. (S/D) Terekty ASM Radar Area A contains five target radar sites (A1 through A5), a support area, and two salvage yards (Figure 4). On adar sites A2, A4, and A5 contained BAR LOCK/BIG BAR radar vans and their associated radar vehicles; radar site A1 contained two radar-associated vehicles; and radar site A3 contained only a small probable radar-associated radar vans area.	25X1
ated vehicle. On BAR LOCK/BIG BAR radars and their associated vehicles were at all five target radar sites, and a probable FENCER was overflying the radar sites in an easterly direction. Only radar sites A2 and A4 contained radar vans and associated radar vehicles on Radar site A5 did not appear to contain a radar van, but one or two probable radar-associated vehicles were present. Target radar site A1 contained one associated radar vehicle. Radar site A3 contained a small, probable radar-associated vehicle. No ECM equipment was identified at the target radar sites during this period. Approximately ten BAR LOCK/BIG BAR radar vans and associated equipment were in the support and salvage areas; two BACK NET radars were also seen in the support area during the period. The BACK NET radar is probably used to monitor ASM test activities.	25X1 25X1
11. (S/D) Comparison of	25X1 25X1 25X1 25X11
(S) Comments and queries regarding this report are welcome. They may be directed to Warsaw Pact Forces Division, Imagery Exploitation Group, NPIC,	25X1 25X1

# Secret

11.

Secret